TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-04-05-04** **Date: 07-04-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Thirumalangara Main road 4th & 5th cross roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/138/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-04-2017
Sample ID No	:	2017-04-05-04/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	05-04-2017
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	284	284	2.84	97.2	80-100
26.5	2283	2567	25.67	74.3	55-90
9.5	1850	4417	44.17	55.8	35-65
4.75	1966	6383	63.83	36.2	25-55
2.36	1275	7658	76.58	23.4	20-40
0.425	1194	8852	88.52	11.5	10-25
0.075	870	9722	97.22	2.8	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	23.10%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-
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Prepared By:
Harshitha

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-07-04** **Date: 10-04-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Thirumalangara Main road 4th & 5th cross roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/138/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-2017
Sample ID No	:	2017-04-07-04/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	07-04-2017
Oven Dry Weight(gm)	:	11000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	176	176	1.60	98.4	95-100
22.4	2177	2353	21.39	78.6	60-80
11.2	2381	4734	43.04	57.0	40-60
4.75	1973	6707	60.97	39.0	25-40
2.36	2020	8727	79.34	20.7	15-30
0.6	639	9366	85.15	14.9	8-22
0.075	1472	10838	98.53	1.5	0-5

Note:-

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-10-04** **Date: 12-04-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Thirumalangara Main road 4th & 5th cross roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/138/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-2017
Sample ID No	:	2017-04-10-04/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-04-2017
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	201	201	2.01	98.0	95-100
22.4	2614	2815	28.15	71.9	60-80
11.2	2016	4831	48.31	51.7	40-60
4.75	2161	6992	69.92	30.1	25-40
2.36	668	7660	76.60	23.4	15-30
0.6	765	8425	84.25	15.8	8-22
0.075	1192	9617	96.17	3.8	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-12-04** **Date: 14-04-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Thirumalangara Main road 4th & 5th cross roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/138/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-2017
Sample ID No	:	2017-04-12-04/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	12-04-2017
Oven Dry Weight(gm)	:	10700

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	301	301	2.81	97.2	95-100
22.4	2714	3015	28.18	71.8	60-80
11.2	2316	5331	49.82	50.2	40-60
4.75	2161	7492	70.02	30.0	25-40
2.36	968	8460	79.07	20.9	15-30
0.6	865	9325	87.15	12.9	8-22
0.075	1192	10517	98.29	1.7	0-5

Note:-

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Certificate No.: T- 4358

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-07-04** **Date: 08-04-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Thirumalangara Main road 4th & 5th cross roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/138/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-2017
Sample ID No	:	2017-04-07-04/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	07-04-2017

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.7%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	9.9%	
Combined Flakiness and Elongation Index for WMM	22.6%	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-10-04** **Date: 12-04-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Thirumalangara Main road 4th & 5th cross roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/138/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-2017
Sample ID No	:	2017-04-10-04/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	10-04-2017

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.2%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.2%	
Combined Flakiness and Elongation Index for WMM	23.4%	

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Date: 08-04-2017

Lab ID	:	CP-RW-2017-04-07-04
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Thirumalangara Main road 4th & 5th cross roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/138/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-2017
Sample ID No	:	2017-04-07-04/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	07-04-2017

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.3	302.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	58.9	62.2
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	243.1	239.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	19.5	20.6
6	Aggregate impact value (Mean of two tests)	Pecentage	20.0	

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Date: 20-04-2017

Lab ID	:	CP-RW-2017-04-20-04
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Thirumalangara Main road 4th & 5th cross roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/138/2017-18
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	20-04-2017
Sample ID No	:	2017-04-20-04/02
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	20-04-2017

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	503	502
2	Weight of the sample After extraction	B	481	478
3	Bitumen percentage	$\frac{A-B}{A}$ X 100	4.37	4.78
4	Average percentage	%	4.6	

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Lab ID : CP-RW-2017-04-20-04
Sample ID No : 2017-04-20-04/02
Date: 20-04-2017

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 481

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	8	8	1.66	98.3	90-100
19	47	55	11.43	88.6	71-95
13.2	89	144	29.94	70.1	56-80
4.75	133	277	57.59	42.4	38-54
2.36	54	331	68.81	31.2	28-42
0.3	91	422	87.73	12.3	7-21
0.075	42	464	96.47	3.5	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	5	5	1.05	99.0	90-100
19	48	53	11.09	88.9	71-95
13.2	99	152	31.80	68.2	56-80
4.75	101	253	52.93	47.1	38-54
2.36	85	338	70.71	29.3	28-42
0.3	73	411	85.98	14.0	7-21
0.075	51	462	96.65	3.3	2-8

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2017-04-20-04	**Date: 20-04-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to Roads and improvements to drains in Thirumalangara Main road 4th & 5th cross roads of Attur Ward No.03	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/138/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	20-04-2017	
Sample ID No	:	2017-04-20-04/01	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of test	:	20-04-2017	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	502
2	Weight of the sample After extraction	B	478	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.78	4.98
4	Average percentage	%	4.9	

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Lab ID : CP-RW-2017-04-20-04 **Date: 20-04-2017**

Sample ID No : 2017-04-20-04/01

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	6	6	1.26	98.7	90-100
19	45	51	10.67	89.3	71-95
13.2	90	141	29.50	70.5	56-80
4.75	135	276	57.74	42.3	38-54
2.36	55	331	69.25	30.8	28-42
0.3	92	423	88.49	11.5	7-21
0.075	40	463	96.86	3.1	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	3	3	0.63	99.4	90-100
19	55	58	12.16	87.8	71-95
13.2	101	159	33.33	66.7	56-80
4.75	99	258	54.09	45.9	38-54
2.36	81	339	71.07	28.9	28-42
0.3	75	414	86.79	13.2	7-21
0.075	46	460	96.44	3.6	2-8

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Date: 16-04-2017

Lab ID	:	**CP-RW-2017-04-15-04**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Thirumalangara Main road 4th & 5th cross roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/138/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-2017
Sample ID No	:	2017-04-15-04/01
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of test	:	15-04-2017
Weight of Sample(gm)	:	5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	172	172	3.44	96.6	90-100
19	878	1050	21.00	79.0	71-95
13.2	995	2045	40.90	59.1	56-80
4.75	1004	3049	60.98	39.0	38-54
2.36	500	3549	70.98	29.0	28-42
0.3	1033	4582	91.64	8.4	7-21
0.075	198	4780	95.60	4.4	2-8
PAN	220	5000	0.00	0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Date: 16-04-2017

Lab ID	:	CP-RW-2017-04-15-04
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Thirumalangara Main road 4th & 5th cross roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/138/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-2017
Sample ID No	:	2017-04-15-04/01
Type of Mix	:	DBM(Dense Bituminous Macadam)
Date of test	:	15-04-2017

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	97.7	Minimum Retained Coating 95%
2	97.5	2.5		
3	97.0	3.0		

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

AEW3

AE-03

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

SPECIFIC GRAVITY AND WATER ABSORPTION TEST
IS:2386 Part III

Lab ID : CP-RW-2017-04-15-04 **Date: 16-04-2017**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Project Name : Asphalting to Roads and improvements to drains in Thirumalangara Main road 4th & 5th cross roads of Attur Ward No.03

Customer Reference : BBMP/EE(YNK.D)/W.O/138/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-04-2017

Sample ID No : 2017-04-15-04/01

Type of Mix : Coarse Aggregate for DBM (Dense Bituminous Macadam)

Date of test : 15-04-2017

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
218	Weight of Wet aggregates + Basket suspended in water	A1	grams	2358	2290	
2	Weight of Empty Basket suspended in water	A2	grams	791	791	
3	Weight of Aggregates in water	A=A1-A2	grams	1567	1499	
4	Weight of Saturated Surface Dry aggregate	B	grams	2520	2400	
5	Weight of oven dried aggregate	C	grams	2515	2395	
6	Specific gravity	C/(B-A)		2.64	2.66	2.65
7	Apparent Specific gravity	C/(C-A)		2.65	2.67	2.66
8	Water absorption	100*(B-C) /C	Percent	0.20	0.21	0.20

Note:-
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All information furnished by Customer/ Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

Prepared By:
Harshitha

AE-01

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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